| Engineer: Bruce Page | Date: 2/18/04 | Raytheon | | | | | |
|---------------------------|---------------|------------------------------------|----------------------------------|------|--------|----|---|
| Drawn: Bruce Page | Date: 2/18/04 | | JPS Comm 5800 Departure Drive | | | | |
| Approved: Chris Samios | Date: 2/18/04 | Title: ACU RADIO APPLICATION NOTES | | | | | |
| Issued/ Revised | Date: 4/14/04 | Size: | Dwg. #: 5961-291267-APP | Rev: | Sheet: | Of | 2 |

APPLIES TO: Motorola/Nextel Model i50SX, i55SR, i58SX, i60C, i85S, i88S, i90C, and i95CL

Iden Cellphones (Direct Connection)

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

1. Turn the handset volume to maximum as indicated on the indicator bar.

CABLING:

| ACU-1000 Interface Top Level Assembly | JPS P/N 5961-291267 |
|---------------------------------------|------------------------|
| ACU-1000 Interface Cable | JPS P/N 5961-291263-00 |
| ACU-1000 Extension Cable | JPS P/N 5961-291266-00 |
| | |
| ACU-T Interface Top Level Assembly | JPS P/N |
| ACU-T Interface Cable | JPS P/N |
| ACU-T Extension Cable | JPS P/N |
| | |

DSP PROGRAMMING:

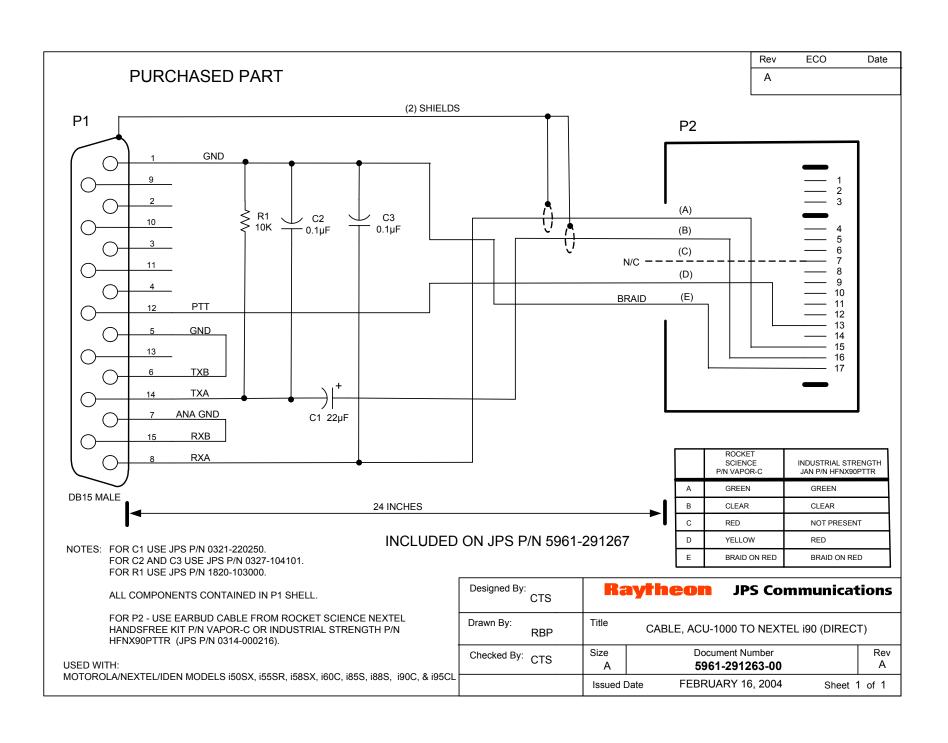
| RX Level | 9 | -29dBm |
|-----------------------------|-------------|-----------|
| TX Level | 6* | 0dBm* |
| Squelch Type | VOX* | |
| COR Polarity | Active Low* | |
| High Frequency Equalizer | 5 | 2dB Boost |
| RX Audio Delay | 2* | 100 ms* |
| TX Audio Delay (Radio Type) | 4 | 800 ms |
| Noise Reduction Value | 0* | Off* |
| VOX/VMR Threshold | 1* | Med1* |
| VOX/VMR Hang Time | 3* | 775 ms* |
| COR Inhibit After PTT | 1* | 100 ms* |
| All Others | As needed | |

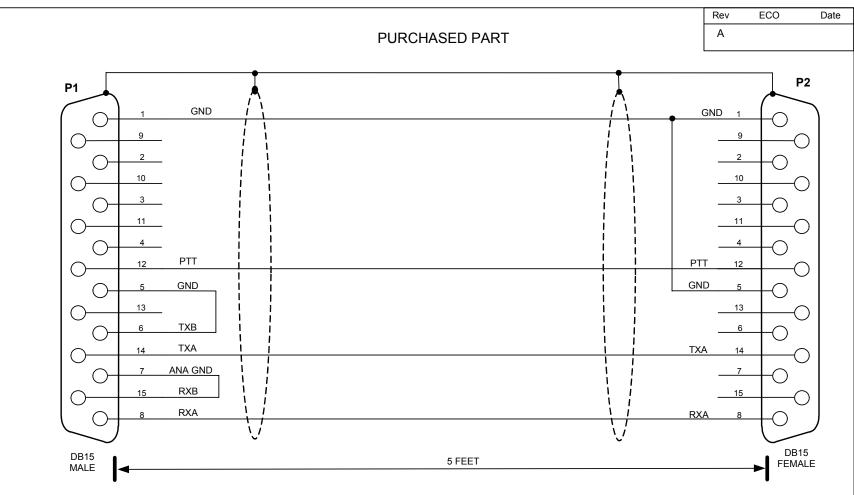
^{(*} Indicates Default Value)

NOTES: This handset cannot be left to operate unattended.

1. The handset will revert to telephone mode after a time-out period of inactivity, and the operator will be needed to return the handset to Iden mode with the appropriate talk group selected.

| 2. | When multiple talk groups are active, the handset will revert to the operator will need to verify or select the desired talk group. | last active talk group and the |
|--------------|---|---|
| 3. | The handset models covered in these Application Notes will not pa operator to manually complete all ACU-1000 or ACU-T interconne | ass DTMF, and therefore require an ections. |
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| | | 291267-APP.doc |
| Dwg# 5961-29 | 291267-APP ACU RADIO APPLICATION N | |





INCLUDED ON:

NEXTEL i90 DIRECT KIT JPS P/N 5961-291267 NEXTEL i305 DIRECT KIT JPS P/N 5961-291270

USED WITH:

ACU-1000 TO i90 DIRECT CABLE JPS P/N 5961-291263-00 ACU-1000 TO i305 DIRECT CABLE JPS P/N 5961-291269-00

NOTE: USE SHIELDED CABLE JPS P/N 0311-042410. CONNECT SHIELD DRAIN TO SHELL OF P1 AND SHELL OF P2. USE JACK SCREWS ON P2.

| Designed By: Chris Samios | Raytheon JPS Communications | | | | |
|-------------------------------|--|-----------|------------|---------|----------|
| Drawn By: Bruce Page | Title Cable, ACU Extension to Nextel i90 Family Direct Connect | | | | |
| Checked By: Chris Samios | Size A | | | | Rev B |
| File Name: 5961-291266-00.VSD | Issued [| Date MARG | CH 9, 2004 | Sheet 1 | _of_1_ |